

Figure 1a

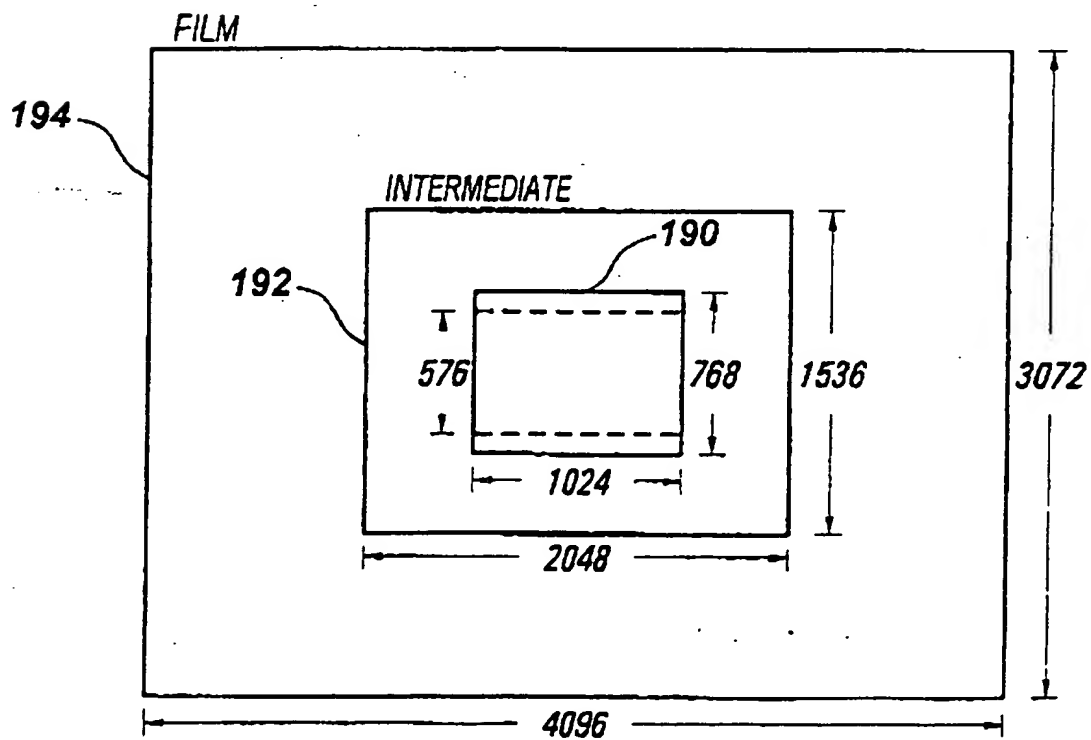
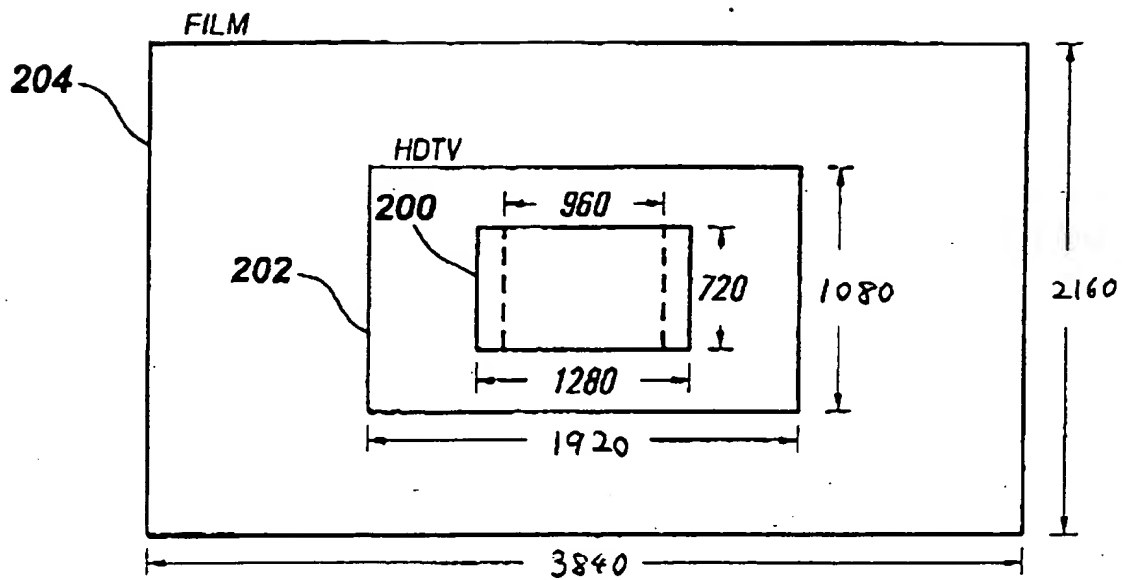
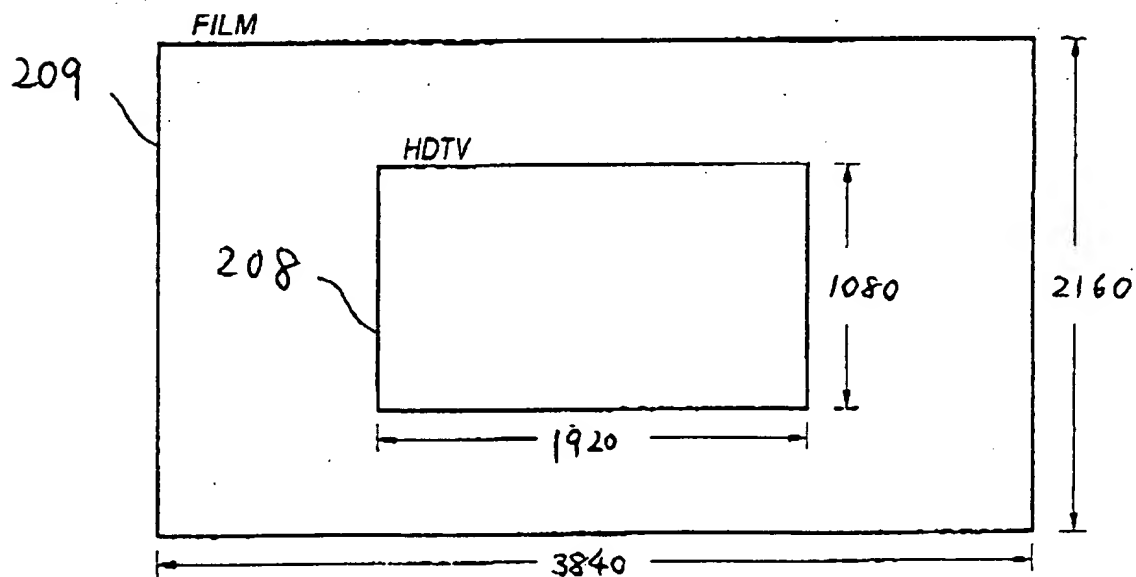


Figure 1b



*Figure 1c*



**Figure 1d**

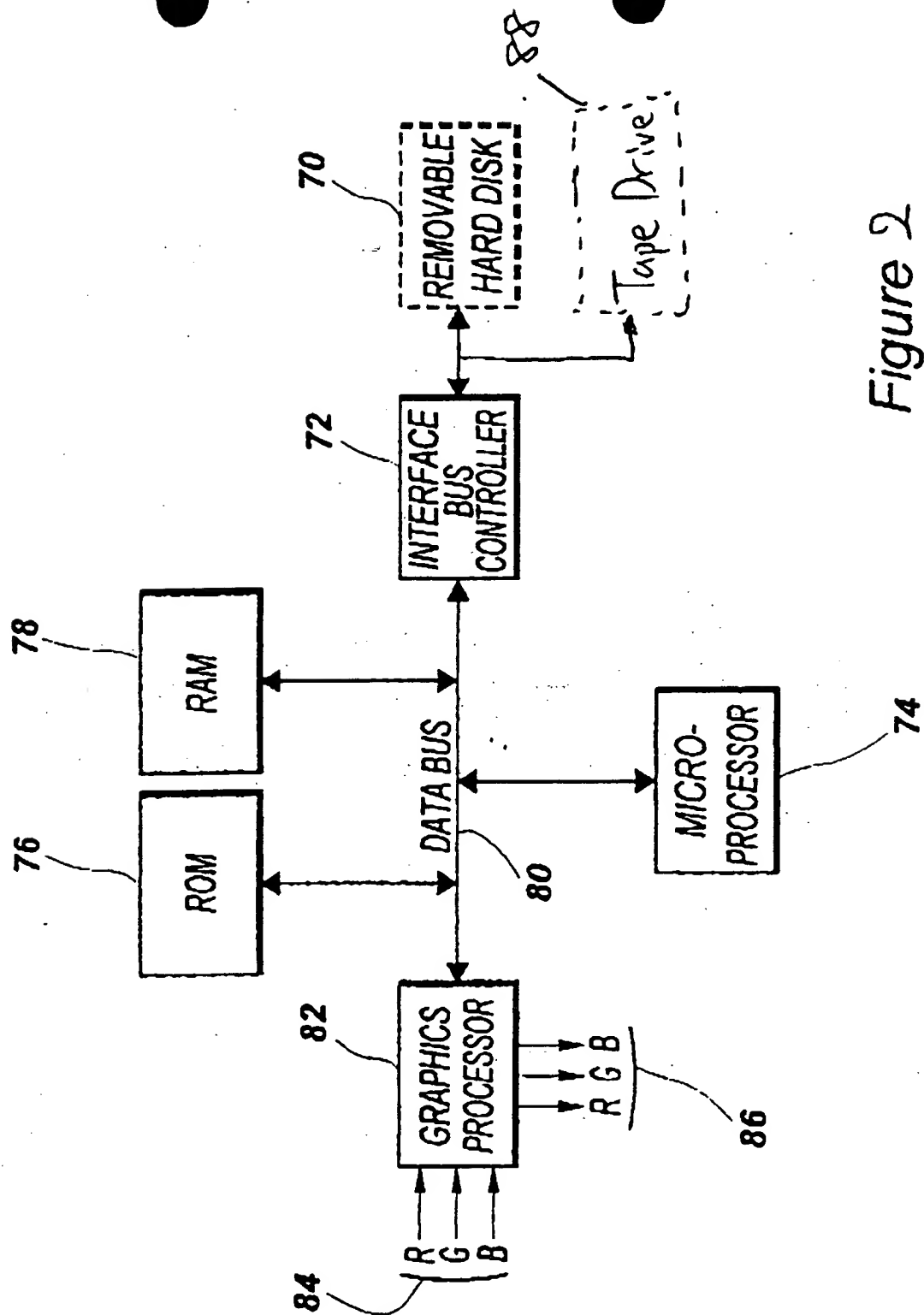


Figure 2

Figure 3

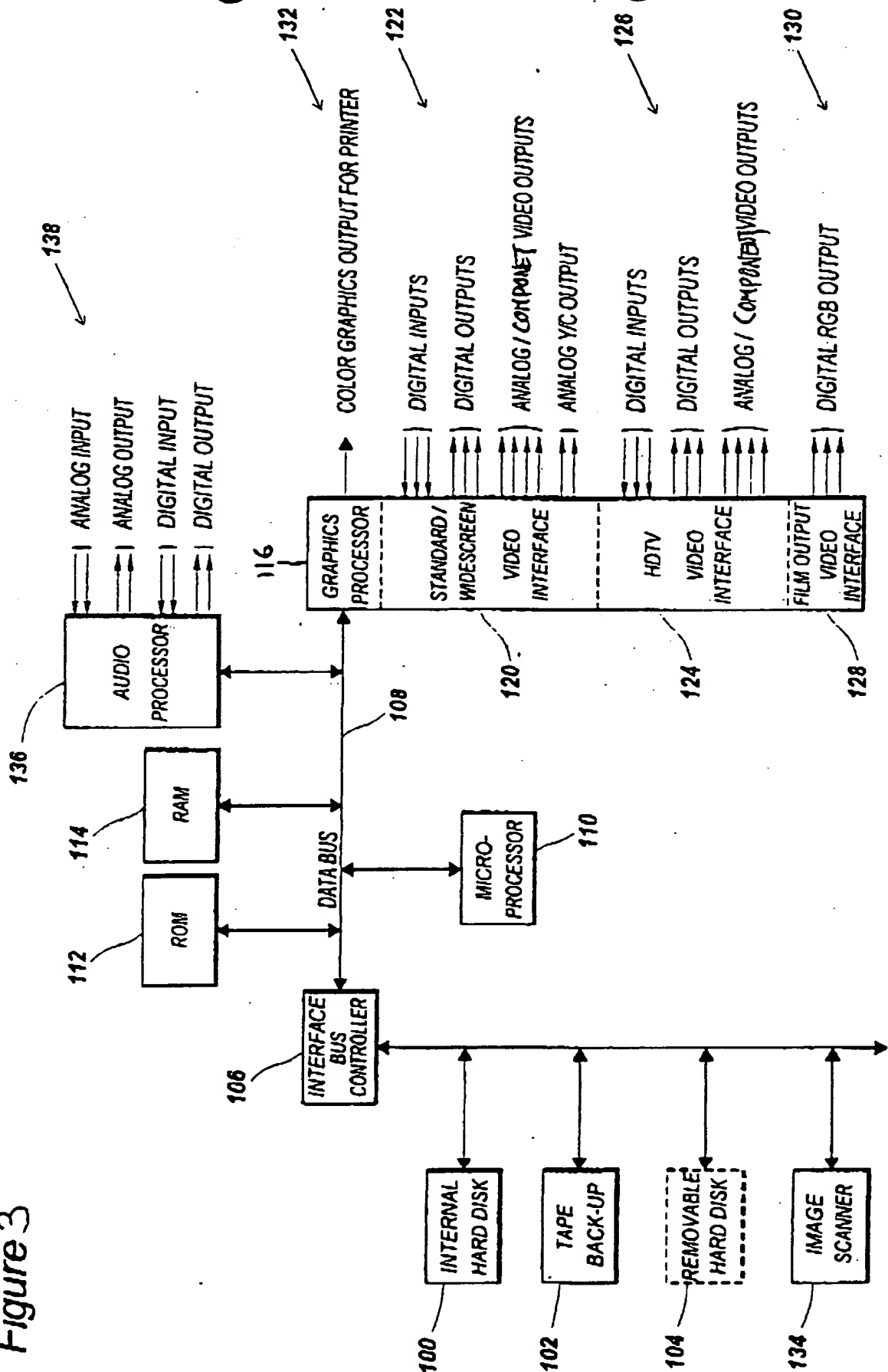
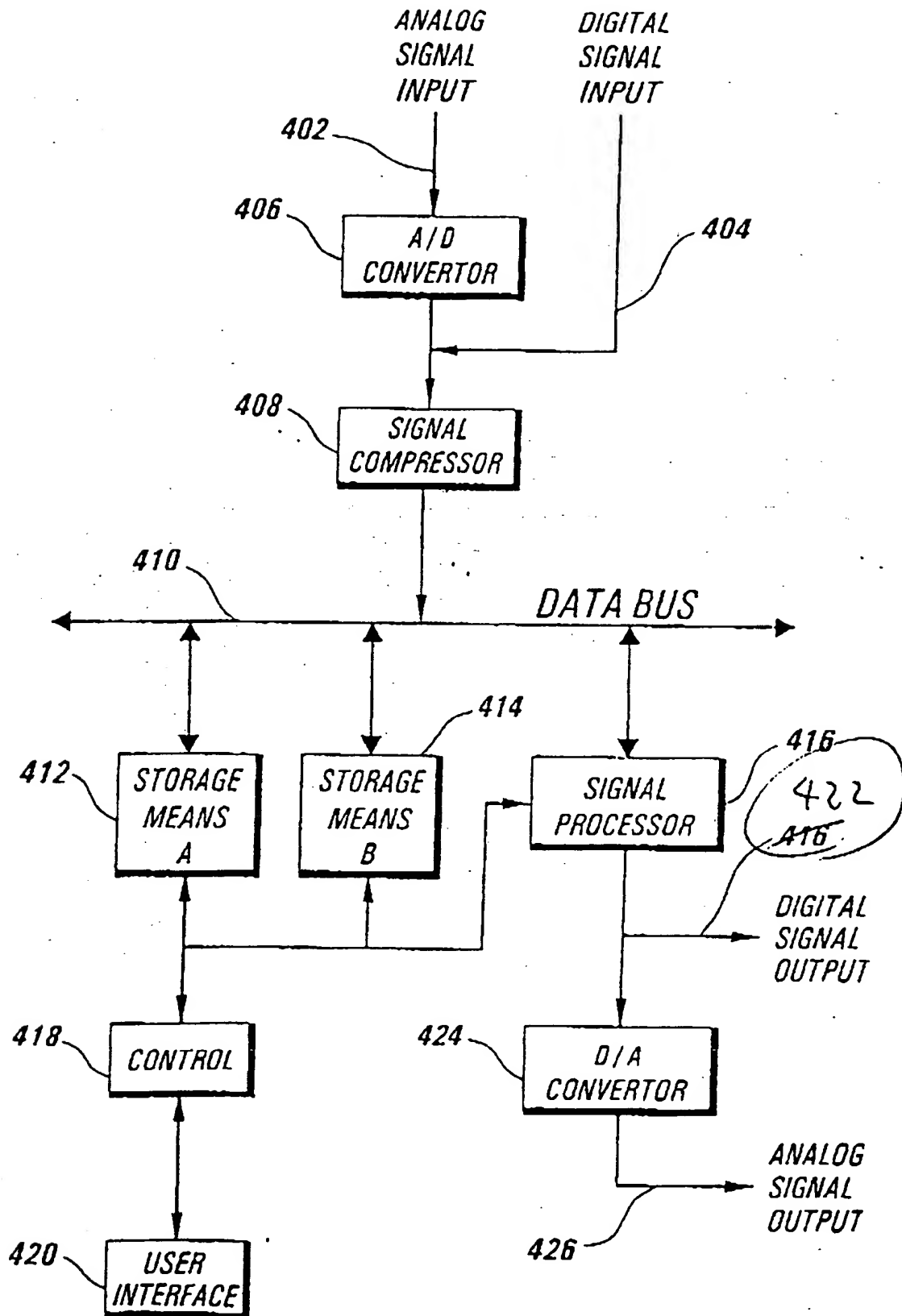


Figure 4



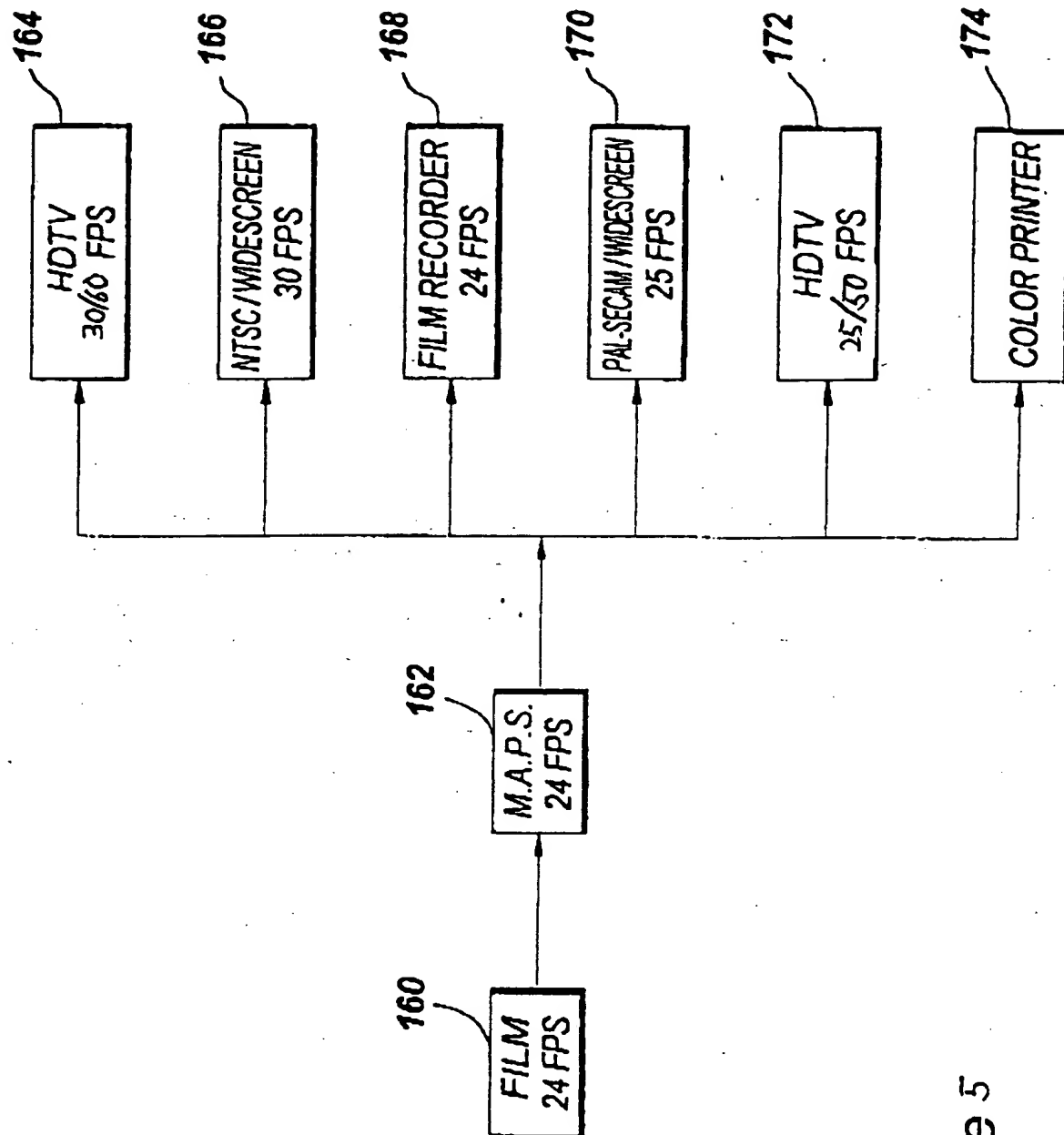


Figure 5

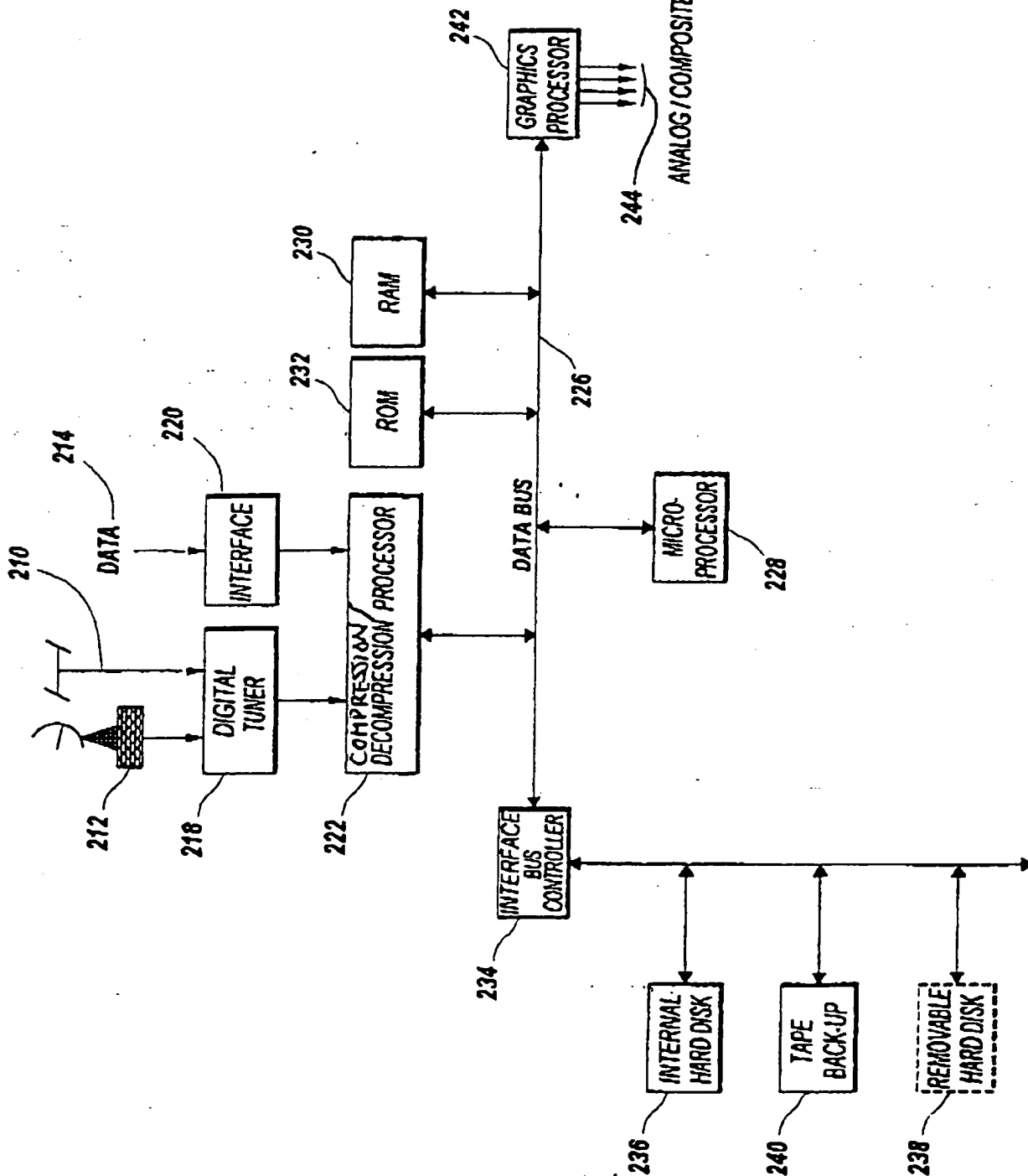


Figure 6

Figure 7a

Output Source	24 fps Interlace (24fps I)	24fps Progress. (24fps P)	25fps Interlace (25fps I)	25fps Progress. (25fps P)	30fps Interlace (30fps I)	30fps Progress. (30fps P)	48fps Progress. (48fps P)	50fps Progress. (50fps P)	60fps Progress. (60fps P)	96fps Progress. (96fps P)
24fps Interlace (24fps I)	—	2:1 Frame Reduction From 48fps P (2)	Speed-up From 24fps I (1)	2:1 Frame Reduction From 50fps P (3)	Interlace & discard From 60fps P (3)	2:1 Frame Reduction From 60fps P (3)	De-Interlace From 24fps I (1)	De-Interlace From 25fps I (2)	4 <sup>th</sup> Frame Repeat From 48fps P (2)	Repeat From 48fps P (2)
24fps Progress. (24fps P)	Interlace From 24fps P (1)	—	Speed-up From 24fps I (2)	Speed-up From 24fps P (1)	3:2 Pull-down From 24fps I (2)	2:1 Frame Reduction From 60fps P (2)	Repeat From 24fps P (1)	Repeat From 25fps P (2)	3:2 Frame Repeat From 24fps P (2)	Repeat From 48fps P (2)
25fps Interlace (25fps I)	Slow-Down From 25fps I (1)	2:1 Frame Reduction From 48fps P (3)	—	2:1 Frame Reduction From 50fps P (2)	Interlace & discard From 60fps P (4)	2:1 Frame Reduction From 60fps P (4)	De-Interlace From 24fps I (2)	De-Interlace From 25fps I (1)	4 <sup>th</sup> Frame Repeat From 48fps P (3)	Repeat From 48fps P (3)
25fps Progress. (25fps P)	Interlace From 24fps P (2)	Slow-down From 25fps P (1)	Interlace From 25fps P (1)	—	3:2 Pull-down From 24fps I (3)	2:1 Frame Reduction From 60fps P (4)	De-Interlace From 24fps I (3)	Repeat From 25fps P (1)	3:2 Frame Repeat From 24fps P (2)	Repeat From 48fps P (3)
30fps Interlace (30fps I)	5 <sup>th</sup> Fr. red., Interlace & Disc. Frm. 60fps P (2)	2:1 Frame Reduction From 48fps P (3)	6 <sup>th</sup> Fr. red. Interlace & Disc. Frm. 60fps P (2)	2:1 Frame Reduction From 50fps P (3)	—	2:1 Frame Reduction From 60fps P (2)	De-Interlace From 24fps I (3)	De-Interlace From 25fps I (3)	De-Interlace From 30fps I (1)	Repeat From 48fps P (3)
30fps Progress. (30fps P)	5 <sup>th</sup> Fr. red., Interlace & Disc. Frm. 60fps P (2)	2:1 Frame Reduction From 48fps P (4)	6 <sup>th</sup> Fr. red. Interlace & Disc. Frm. 60fps P (2)	2:1 Frame Reduction From 50fps P (4)	Interlace From 30fps P (1)	—	De-Interlace From 24fps I (3)	De-Interlace From 25fps I (3)	Repeat From 30fps P (1)	Repeat From 48fps P (4)
48fps Progress. (48fps P)	Interlace From 24fps P (2)	2:1 Frame Reduction From 48fps P (1)	Interlace From 25fps P (3)	Speed-up From 24fps P (2)	3:2 Pull-down From 24fps I (3)	2:1 Frame Reduction From 60fps P (2)	—	De-Interlace From 25fps I (4)	De-Interlace From 30fps I (4)	Repeat From 48fps P (1)
50fps Progress. (50fps P)	Interlace From 24fps P (3)	Slow-down From 25fps P (2)	Interlace & discard From 50fps P (1)	2:1 Frame Reduction From 50fps P (1)	3:2 Pull-down From 24fps I (3)	2:1 Frame Reduction From 60fps P (3)	De-Interlace From 24fps I (4)	—	3:2 Frame Repeat From 24fps P (3)	Repeat From 48fps P (2)
60fps Progress. (60fps P)	5 <sup>th</sup> Fr. red., Interlace & Disc. Frm. 60fps P (1)	2:1 Frame Reduction From 48fps P (4)	6 <sup>th</sup> Fr. red. Interlace & Disc. Frm. 60fps P (1)	2:1 Frame Reduction From 50fps P (4)	Interlace & discard From 60fps P (1)	2:1 Frame Reduction From 60fps P (1)	De-Interlace From 24fps I (3)	De-Interlace From 25fps I (2)	—	Repeat From 48fps P (4)
96fps Progress. (96fps P)	Interlace From 24fps P (3)	2:1 Frame Reduction From 48fps P (2)	Speed-up From 24fps I (4)	Speed-up From 24fps P (3)	3:2 Pull-down From 24fps I (4)	2:1 Frame Reduction From 60fps P (3)	2:1 Frame Reduction From 96fps P (1)	De-Interlace From 25fps I (5)	4 <sup>th</sup> Frame Repeat From 48fps P (2)	—



**Figure 7b**

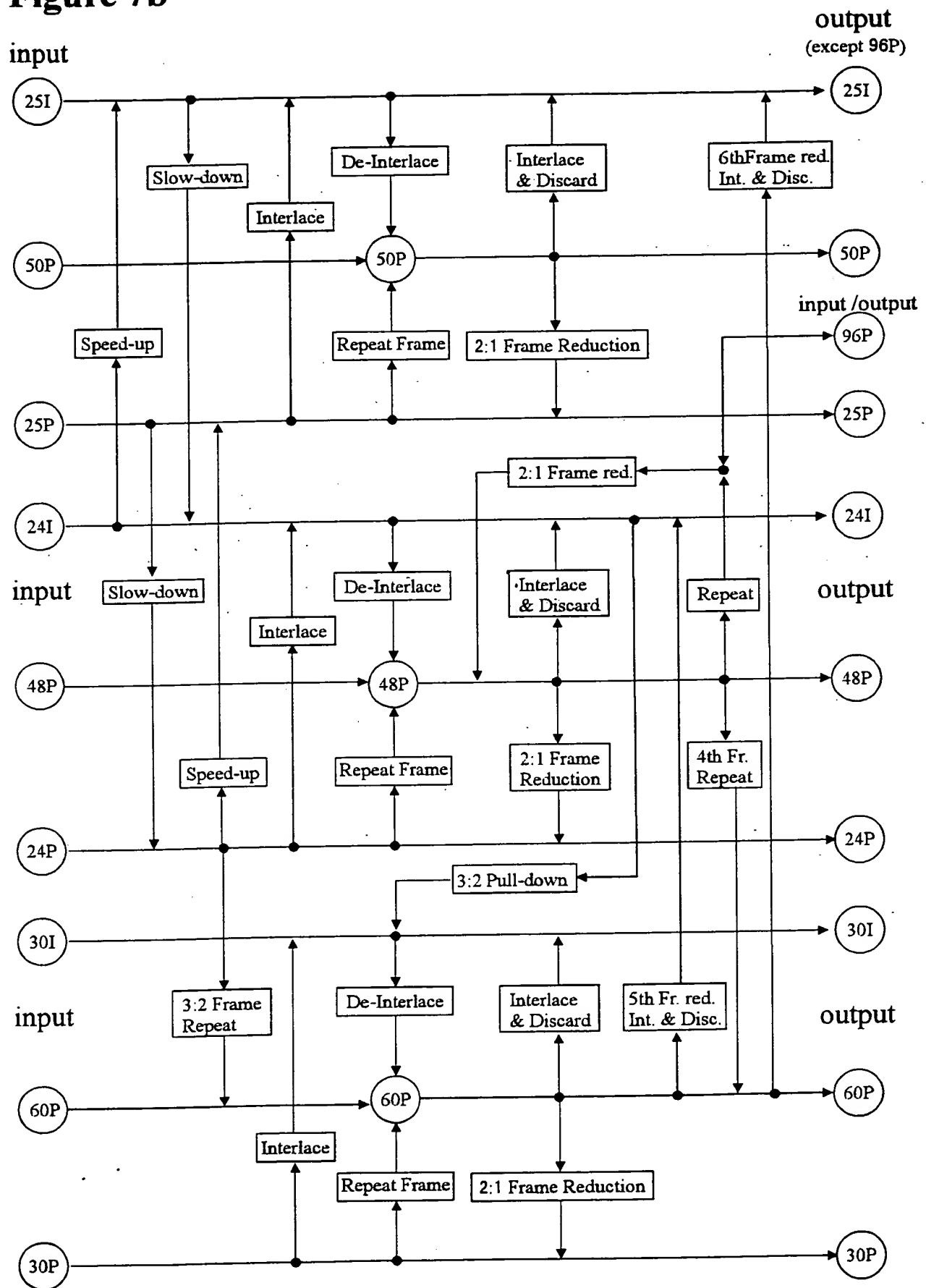


Figure 7c

3 : 2 Pull-Down  
(24 fps P to 30 fps I)

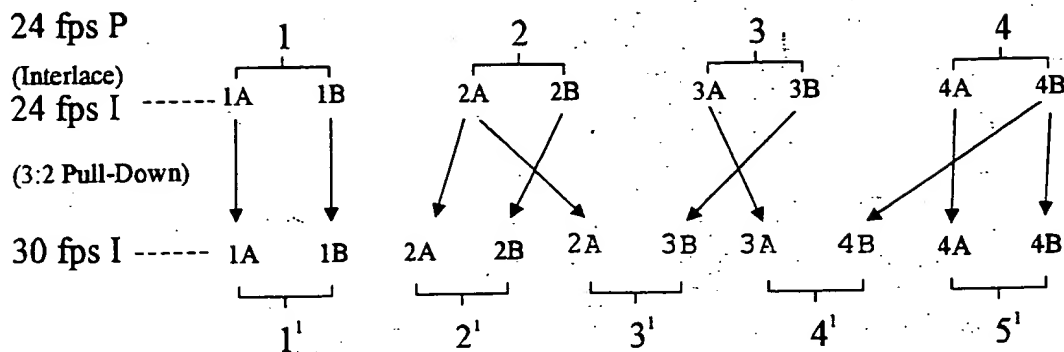
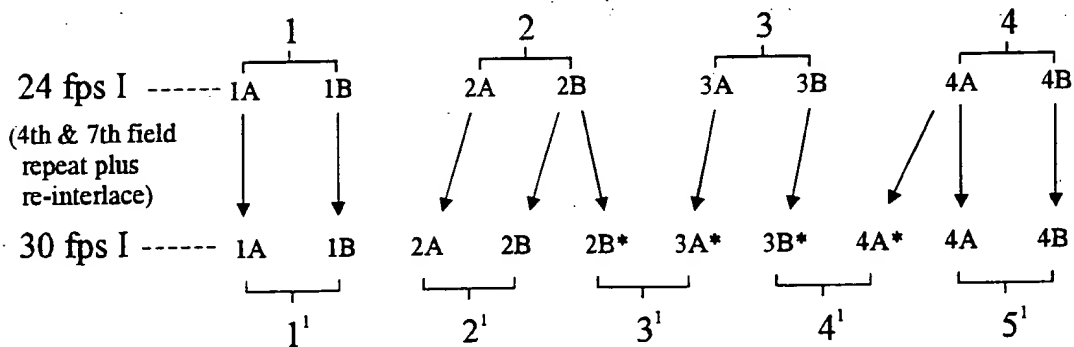


Figure 7e

4th & 7th Field Repeat plus Re-Interlace  
(24 fps I to 30 fps I)



\* Reversed-Field

Figure 7g

3 : 2 Frame Repeat (24 fps P to 60fps P)

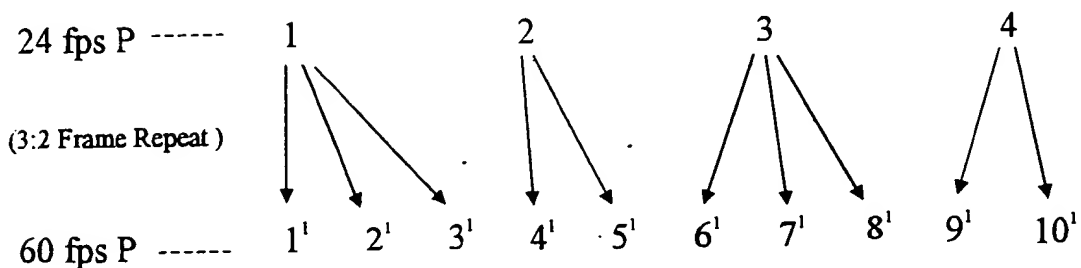


Figure 7d

# 25 fps Interlace to 30 fps Interlace Conversion (from PAL CCD camera source to NTSC out)

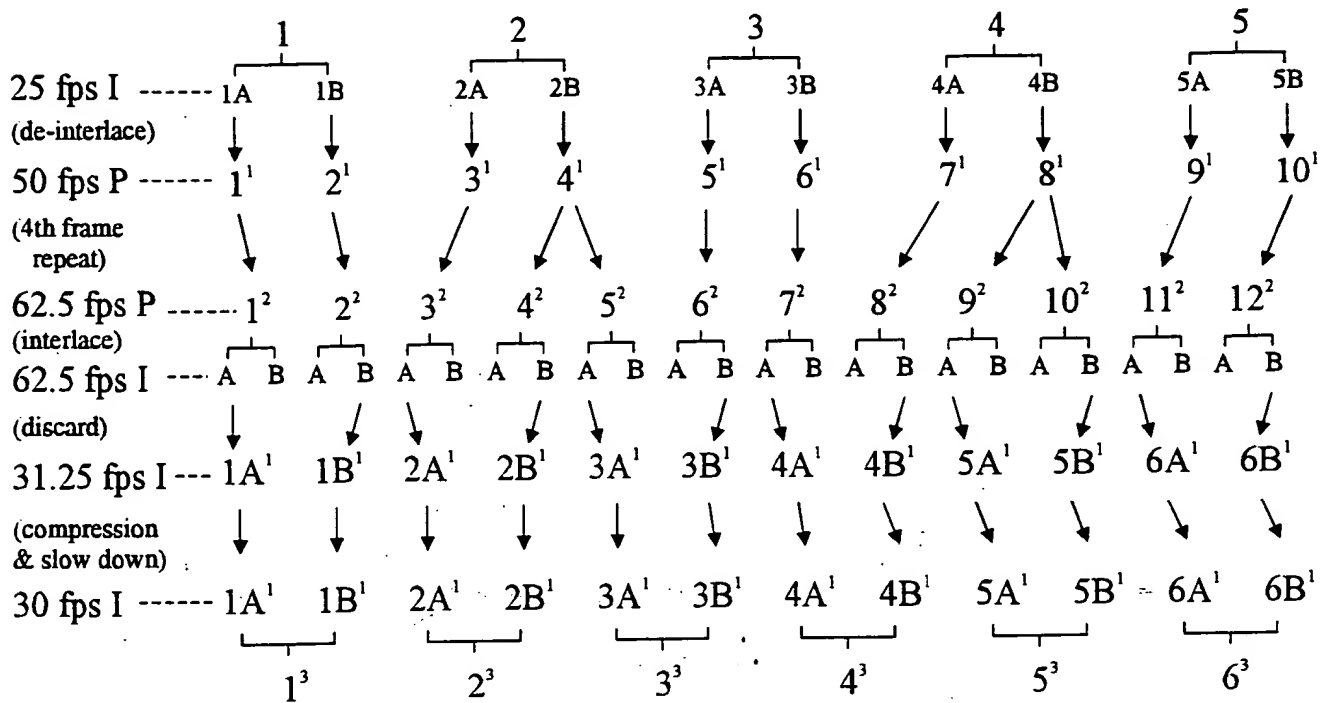
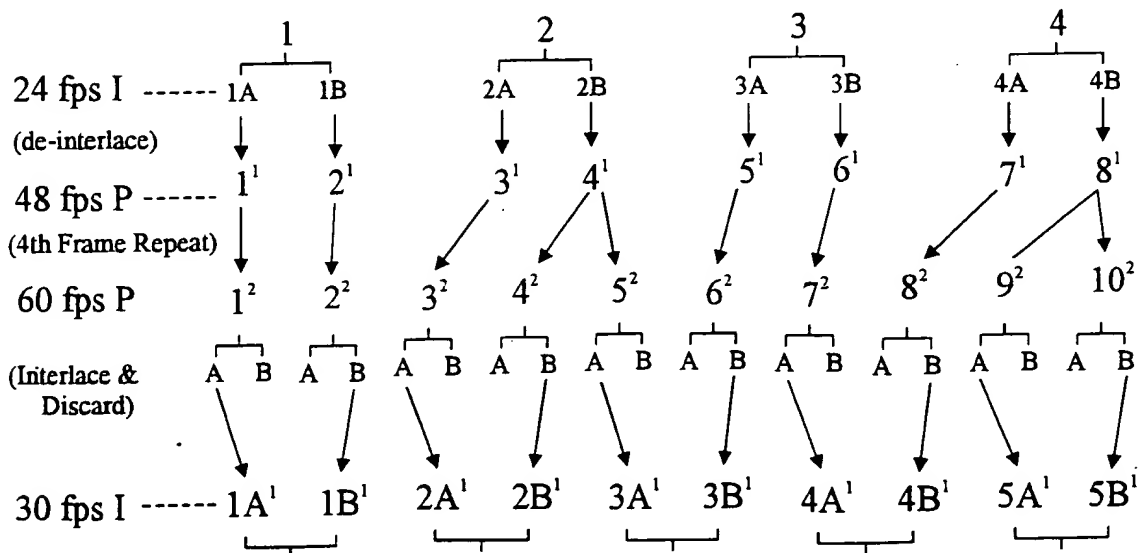


Figure 7f

## 4th Frame Repeat (24fps I to 30fps I)

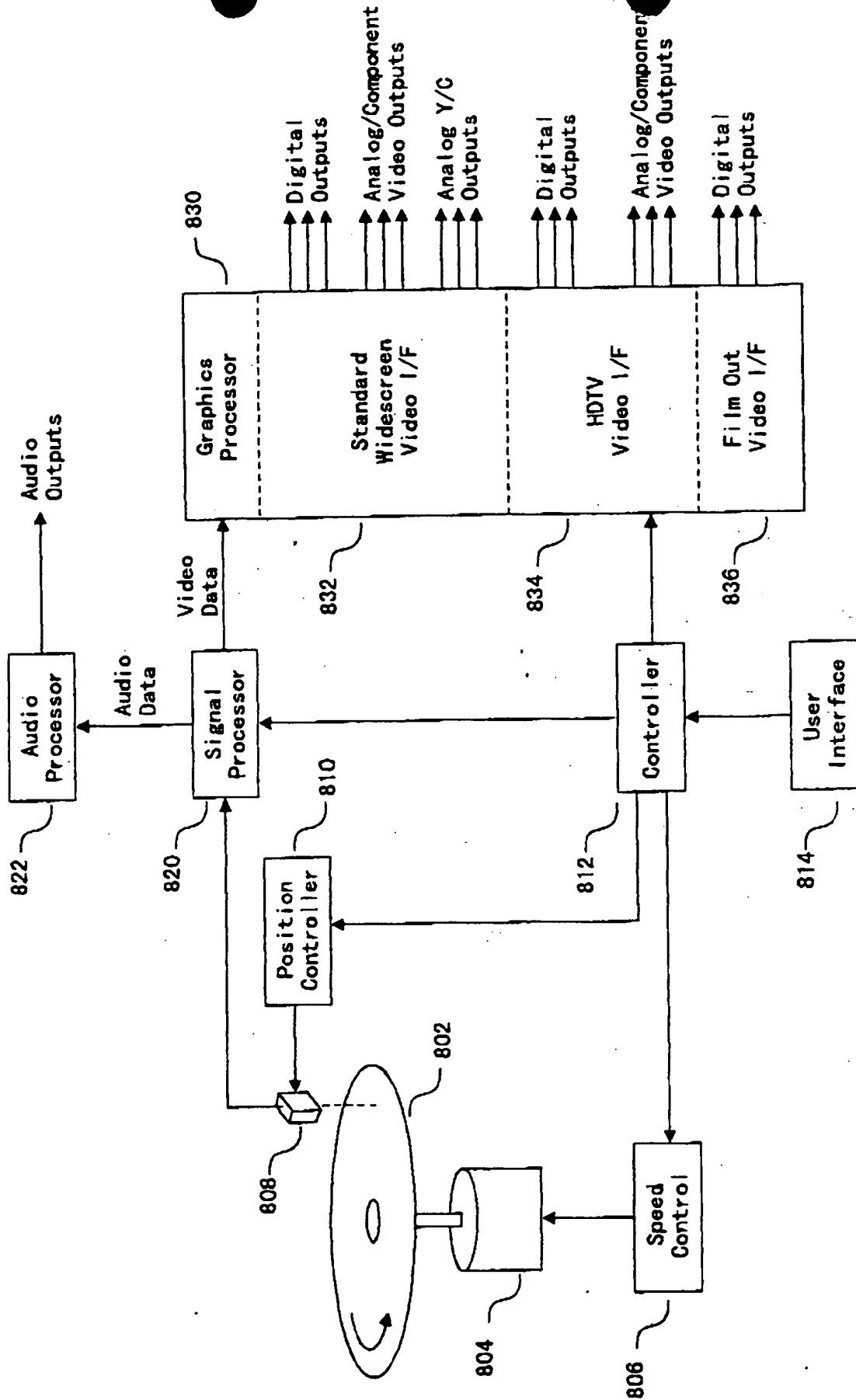


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Fig. 8



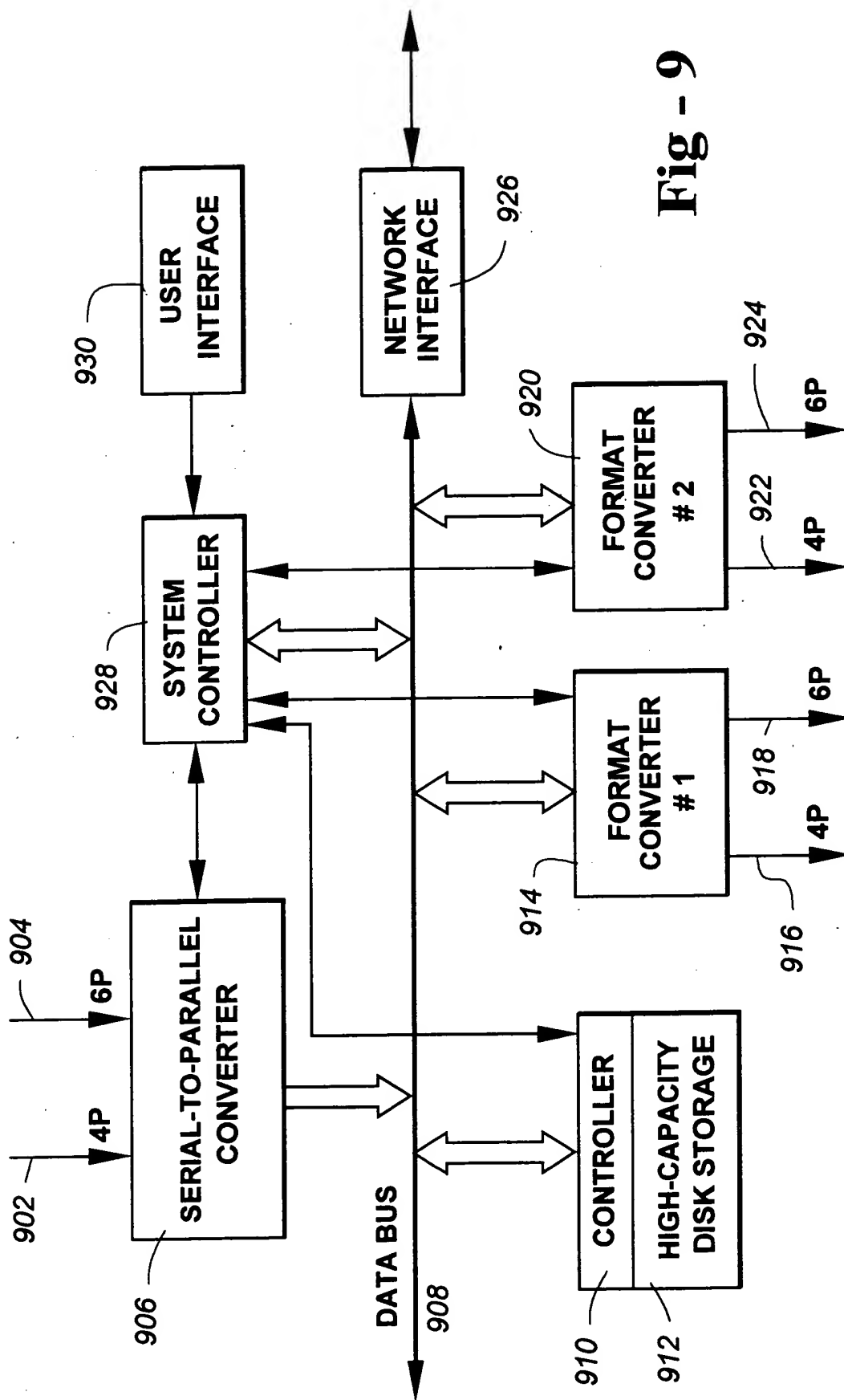


Fig - 9

**Fig - 10**

